

What is claim d is:

1. A magnetic disk apparatus, comprising:

a magnetic disk;

5 a rotation mechanism for rotationally driving said magnetic disk;

a magnetic head slider, being attached to be movable in a radial direction of said magnetic disk while flying on a surface thereof;

10 a controller portion for controlling said magnetic head slider at position thereof, in the radial direction of said magnetic disk; and

an load/unload mechanism for loading said magnetic head slider from a ramp portion onto said magnetic disk or unloading it onto the ramp portion, wherein

15 said magnetic disk comprises: a load/unload zone having a predetermined length in a peripheral direction thereof, for performing loading/unloading of said magnetic head slider on/from a surface of said magnetic disk by means of said load/unload mechanism; and a specific pattern recorded in front of said
20 load/unload zone in the peripheral direction thereof, and

said controller portion reads out said specific pattern recorded on said magnetic disk by means of said magnetic head slider, and controls said magnetic head slider on position thereof, so that it moves while avoiding said load/unload zone.

25 2. A magnetic disk apparatus, as described in the claim 1, wherein said load/unload zone is defined by a rotation angle being equal or less than ninety (90) degree, in the peripheral direction on an outer periphery side of said magnetic disk.

3. A magnetic disk apparatus, as described in the claim 2, wherein said controller portion moves said magnetic head slider onto a track in vicinity of an inner periphery side thereof, in said load/unload zone.

5 4. A magnetic disk apparatus, as described in the claim 1, wherein said load/unload zone is defined by a rotation angle being equal or less than ninety (90) degree, in the peripheral direction on an inner periphery side of said magnetic disk.

10 5. A magnetic disk apparatus, as described in the claim 4, wherein said controller portion moves said magnetic head slider onto a track in vicinity of an outer periphery side thereof, in said load/unload zone.

15 6. A magnetic disk apparatus, as described in the claim 1, wherein said disk further comprises a data area on the track being same to that, on which said load/unload zone is defined.

 7. A magnetic disk apparatus, as described in the claim 6, wherein said disk further comprises a buffer zone at least one of areas defined between said load/unload zone and said data area.

20 8. A magnetic disk apparatus, as described in the claim 1, wherein said controller portion further includes a function of bringing said magnetic head slider to access data recorded on the track, being same to that on which said load/unload zone is defined.

25 9. A position control method for a magnetic head slider of a magnetic disk apparatus, including therein a load/unload mechanism for loading/unloading said magnetic head slider to said magnetic disk, which has a load/unload zone of a predetermined length in a peripheral direction thereof, comprising the following steps of:

30 reading out a specific pattern recorded on said magnetic disk in front of said load/unload zone in the peripheral direction

thereof;

controlling said magnetic head slider on position thereof, so that said magnetic head slider moves while avoiding said load/unload zone, when said specific pattern is read out.

5 10. A position control method for a magnetic head slider of a magnetic disk apparatus, as describe in the claim 9, wherein said magnetic head slider is moved onto a track in vicinity of said load/unload zone in an inside or outside thereof, when said specific pattern is read out.

10 11. A position control method for a magnetic head slider of a magnetic disk apparatus, as describe in the claim 9, wherein said magnetic head slider is moved onto a track being same to that on which said load/unload zone is defined, after moving said magnetic head slider, so as to avoid said load/unload zone, when
15 reading or writing data onto the same track to that on which said load/unload zone is defined.